Date: November 12, 2001 Page <u>1</u> of <u>3</u>

(REV. 07/01) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) APPLICANT: Andrew W. Taylor et al. FILING DATE July 23, 2001 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATION APPLICANT: AND TRADEMARK OFFICE ERIZY-114AX 09/912,670 APPLICANT: APPLICANT: AND TRADEMARK OFFICE ERIZY-114AX O9/912,670 APPLICANT: APPROPRIATION CLASS SUBCLASS FILING DATE APPROPRIATION APPROPRIATION CLASS APPROPRIATION APPROPRIATION CLASS SUBCLASS FILING DATE APPROPRIATION APPROPRIATION CLASS APPROPRIATION APPROPRIATION CLASS SUBCLASS FILING DATE APPROPRIATION APPROPRIATION CLASS APPROPRIATION APPLICANT: APPROPRIATION CLASS SUBCLASS FILING DATE APPROPRIATION APPROPRIATION CLASS CLASS APPROPRIATION APPROPRIATION CLASS CLASS APPROPRIATION APPROPRIATION CLASS APPROPRIATION APPROPRIATION CLASS CLASS FILING DATE APPROPRIATION APPROPRIATION APPROPRIATION CLASS CLASS FILING DATE APPROPRIATION APPROPRIATION APPROPRIATION CLASS CLASS CLASS FILING DATE APPROPRIATION APPROPRIATION APPROPRIATION CLASS CLASS FILING DATE APPROPRIATION APPROPRIATION CLASS CLASS CLASS FILING DATE APPROPRIATION APPROPRIATION CLASS CLASS CLASS FILING DATE APPROPRIATION APPROPRIATION CLASS FILING DATE APPROPRIATION APPROPRIATION CLASS FILING DATE APPROPRIATION APPROPRIATION CLASS CLASS FILING DATE APPROPRIATION APPROPRIATION CLASS CLASS CLASS FILING DATE APPROPRIATION CLASS F	1	*	MERCE	TANDERAREMENT OF COM	Form PTO-1449					
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) APPLICANT: Andrew W. Taylor et al. FILING DATE July 23, 2001 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATE										
(Use several sheets if necessary) APPLICANT: Andrew W. Taylor et al. FILING DATE July 23, 2001 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATE	ERIZY-114AX 09/912,670									
APPLICANT: Andrew W. Taylor et al. FILING DATE July 23, 2001 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATE		INFORMATION DISCLOSURE CITATION								
Andrew W. Taylor et al. FILING DATE July 23, 2001 U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATE		(Use several sheets if necessary)								
EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATE	APPLICANT:									
U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATE		-								
U.S. PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATE	11 11 11									
EXAMINER INITIAL DOCUMENT NUMBER DATE NAME CLASS SUBCLASS FILING DATE APPROPRIATE	July 23, 2001									
INITIAL APPROPRIAT	TS	DOCUMENTS	U.S. PATEN	· · · · · · · · · · · · · · · · · · ·						
5 920 004 11/03/1000 DYTT: 1 1 53h 30h	NAME CLASS SUBCLASS FILING DATE IF APPROPRIATE*	NAME		DOCUMENT NUMBER	l I					
5,830,994 11/03/1998 D'Hinterland et al. 530 200	erland et al. 530 200	D'Hinterla	11/03/1998	5,830,994	M					
5,157,023 10/20/1992 Lipton 514 18	ipton 514 18	Lipt	10/20/1992	5,157,023						
5,028,592 07/02/1991 Lipton 514 18	ipton 514 18	Lipt	07/02/1991	5,028,592						
4,874,744 10/17/1989 Nordlund et al. 514 13	lund et al. 514 13	Nordlund et al.		4,874,744						
4,866,038 09/12/1989 Hruby et al. 514 14	by et al. 514 14	Hruby	09/12/1989	4,866,038						
FOREIGN PATENT DOCUMENTS	ENTS	NT DOCUMEN	FOREIGN PAT							
DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS TRANSLATION	UNTRY CLASS SUBCLASS TRANSLATION	DOCUMENT NUMBER DATE COUN								
YES NO	YES NO									
WO 98/25584 06/18/1998 WIPO A61K 7/48	VIPO A61K 7/48	WIPO		WO 98/25584						
WO 96/41815 12/27/1996 WIPO C07K 14/685	VIPO C07K 14/685	WIF	12/27/1996	WO 96/41815						
WO 93/02692 02/18/1993 WIPO A61K 37/02	VIPO A61K 37/02	WIF	WO 93/02692 02/18/1993 W							
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)	Date, Pertinent Pages, etc.)	uthor, Title, Date	ENTS (including	OTHER DOCUM						
Taylor, A.W. et al., "Alpha-Melanocyte-Stimulating Hormone Suppresses Antigen-Stimulated T Cell Production of Gamma Interferon", Neuroimmunomodulation, 1:188-194 (1994)	Suppresses Antigen-Stimulated T Cell Production of Gamma-									
Huang, R.R. et al., "Species-Dependent Pharmacological Properties of the Melanocortin-5 Receptor", J. of Receptor & Signal Transduction Research, 20(1):47-59 (Jan 2000)	erties of the Melanocortin-5 Receptor", J. of Receptor &									
Schioth, H.B. et al., "Evidence Indicating that the Extracellular Loops of the Mouse MC5 Receptor Do Not Participate in Ligand Binding", Molecular & Cellular Endocrinology, 139(1-2):109-115 (April 1998)										
Buggy, J.J., "Binding of Alpha-Melanocyte-Stimulating Hormone to its G-Protein-Coupled Receptor on B-Lymphocytes Activates the Jak-STAT Pathway", Biochem. J., 331(Pt1):211-216 (April 1998)		Buggy, J.J., "Binding of Alpha-Melanocyte-Stimulating Hormone to its G-Protein-Coupled Receptor on B-Lymphocytes								
Van der Kraan, M. et al, "Expression of Melanocortin-5 Receptor in Secretory Epithelia Supports a Functional Role in Exocrine and Endocrine Glands", Endocrinology, 139(5):2348-2355 (May 1998)	or in Secretory Epithelia Supports a Functional Role in									
Chagnon, Y.C. et al., "Linkage and Association Studies Between the Melanocortin Receptors 4 and 5 Genes and Oesity-Related Phenotypes in the Quebec Family Study", Molec. Med., 3(10):663-673 (Oct. 1997)	n the Melanocortin Receptors 4 and 5 Genes and Oesity-	dies Between th	d Association St	Chagnon, Y.C. et al., "Linkage and						
Chen, W. et al., "Exocrine Gland Dysfunction in MC5-R-Deficient Mice: Evidence for Coordinated Regulation of Exocring Gland Function by Melanocortin Peptides", Cell., 91(6):789-798 (Dec. 1997)	ent Mice: Evidence for Coordinated Regulation of Exocrine	C5-R-Deficient	Dysfunction in N	Chen, W. et al., "Exocrine Gland	D 25					
EXAMINER 2 West 2/164 DATE CONSIDERED		EVAMINED 5								
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and	MPEP 609; Draw line through citation if not in conformance and	rmance with MP	citation is in conf	- 15/5/						

Date: November 12, 2001 Page 2 of 3

Form PTO-1449	U.S. DEPARTMENT OF COMM	MERCE			ATTY. DOCKE	ET NO.	APPLICATIO	NO.		
(REV. 07/01)	PATENT AND TRADEMARK OF	FICE								
			ERIZY-114AX		09/912,670					
	INFORMATION DISCLOSURE CI	TATION								
	(Use several sheets if necessa	rv)								
	(H	APPLICANT:	•				
				ı	Andrew W.	Taylor et	al.			
				⊢	FILING DATE	rayior et	GROUP			
							GROOT			
		U.S. PATENT I	DOCUMENT		July 23, 200					
EXAMINER	DOCUMENT NUMBER	DATE		AM		CLASS	SUBCLASS	FILING I	DATE IE	
INITIAL	DOCUMENT NUMBER	DATE	11.	Aiv	ie.	CLASS			OPRIATE*	
·										
	_								1-	
				141						
	F	OREIGN PATEN	T DOCUME	NT	rs			·		
	DOCUMENT NUMBER	DATE	COU	JNT	TRY	CLASS	SUBCLASS	TRANS	LATION :	
								YES	NO	
	OTHER DOCUME									
SPA	Schioth, H.B. et al., "The Melanocortin 1, 3, 4, or 5 Receptors Do Not Have a Binding Epitope for ACTH Beyond the Sequence of Alpha-MSH", J. of Endocrinology, 155(1):73-78 (Oct. 1997)									
	Fong, T.M. et al., "ART (Protein Product of Agouti-related Transcript) as an Antagonist of MC-3 and MC-4 Receptors", Biochem. & Biophys. Research Commun. 237(3):629-631 (Aug. 1997)									
	Frandberg, P.A. et al., "Glutamine235 and Arginine272 in Human Melanocortin 5 Receptor Determines its Low Affinity to MSH", Biochem. & Biophys. Research Commun., 236(2):489-492 (July 1997)									
	Schioth, H.B et al, "Selectivity of [Phe-I7], [Ala6], and [D-Ala4, Gln5, Tyr6] Substituted ACTH(4-10) Analogues for the Melanocortin Receptors", Peptides, 18(5):761-763 (1997)									
	Chowdhary, B.P. et al., "Localization of the Human Melanocortin-5 Receptor Gene (MC5R) to Chromosome Band 18p11.2 by Fluorescence in Situ Hybridization", Cytogenetics & Cell Genetics, 68(1-2):79-81 (1995)									
	Adan, R.A. et al., "Identification of Antogonists for Melanocortin MC3, MC4 and MC5 Receptors", Euro. J. of Pharmacology, 269(3):331-337 (Nov. 1994)							. 0		
(Xu)	Griffon, N. et al., "Molecular Clon Research Commun., 200(2):1007-	ing and Charact		he	Rat Fifth Meld	inocortin I	Receptor", Bio	chem. & I	Biophys.	
		TOT (Tiplii 1994	-	λΤΙ	E CONSIDERI	ED				
*EXAMINER In	itial if citation considered, whether or not c	ritation is in confor					itation if not in c	onformance	e and not	
	e copy of this form with next communication		manee with M		. 502, Diaw iii	e anough c	audion n not m t	o.mo.mano	- and not	

Date: November 12, 2001 Page <u>3</u> of <u>3</u>

Form PTO-14	449 DEPARTMENT OF COMMERCE			ATTY. DOCK	N NO.					
(REV. 07/01)		PATENT AND TRADEMARK	OFFICE							
					ERIZY-114	AX	09/912,670			
		INFORMATION DISCLOSURE	CITATION							
		(Use several sheets if nece.	ssary)							
					APPLICANT:		•			
					Andrew W.	Taylor et	al.			
					FILING DATE	·····	GROUP			
			July 23, 2001							
		-	II C DATEN	NT DOCUMENT	<u> </u>					
	Т	<u> </u>		T				T		
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NA NA	ME	CLASS	SUBCLASS	FILING I		
	H									
·	┡							ļ		
	L	<u> </u>	FODEICN DAT	LENT DOCUME	ENTS	<u>.l</u>		<u></u>		
	Π	T	1							
		DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUBCLASS:			
	L							YES	NO	
			8							
	 						<u> </u>			
	L_						4	<u> </u>	<u> </u>	
		OTHER DOCUM		-		-			·	
Sola		Gantz, I. et al., "Molecular Clonia Biophys. Research Commun. 200			ition of a Fifth	Melanocor	tin Receptor'',	Biochem.	&	
		Labbe, O. et al., "Molecular Clon		Melanocortin 5	Receptor Gene	Widely Ex	pressed in Peri	pheral Tis.	sues",	
1		Biochem., 33(15):4543-4549 (Ap	ril 1994)						•	
//	*	Taylor, A.W. et al, "Alpha-Melan						Macropha	ige	
		Participation in Immunogenic Inf	lammation.", J. 1	Immunol. 150(8):129A(abstrac	t 726) (Ap	ril 1993)			
	*	Duvaux-Miret, O. et al., "Immunosuppression in the Definitive and Intermediate Hosts of the Human Parasite Schistosoma Mansoni by Release of Immunoactive Neuropeptides", Proc. Natl. Acad. Sci. USA, 89:778-781 (Jan. 1992)								
	*						`		ow"	
		Saperstein, A. et al., "Interleukin 1\textit{\beta} Mediates Stress-Induced Immunosuppression Via Corticotropin-Releasing Factor", Endocrinology, 130(1):152-158 (Jan. 1992)								
	*	Rheins, L.A. et al., "Alpha-Melan C57/BL6 Mice", J. Invest. Derm.,			dulates Contac	t Hypersen	sitivity Respon.	siveness iņ		
Son	*	Taylor, A.W. et al., "Alpha-Melon FASEB J., 10(6):A1206(abstract			ents Induction	of Effector	T-Cell Inflami	natory Act	ivity",	
EVANDED		111 210/11	<u>-</u>	DAT	TE CONSIDER	ED				
EXAMINER *	7	itial if citation considered whether	at aitation is in se-				citation if not :-	conforma-	ice and	
		itial if citation considered, whether or n			ir cr 009; Draw	mie uirougn	citation II not in	comorman	ice and	

^{*} References cited in PCT International No. PCT/US00/01608 which was published on 21 January 2000. CSK/knr/260956-1

Date: October 29, 2002 Page <u>1</u> of <u>1</u>

TEN S T	U.S. DEPARTMENT OF COMM	MERCE		ATTY. DOCKI	ET NO.	APPLICATION	NO.			
(REV. 08/02) PATENT AND TRADEMARK OFFICE										
DITION ALTION DIGGLOGUES GUELTION					AX	09/912,670	団			
INFORMATION DISCLOSURE CITATION							关	N I		
(Use several sheets if necessary)				APPLICANT:				8 f		
				Andrew W.	Taylor et	a1	ECH CENTER 1600/290	0 7 2002		
				FILING DATE		GROUP	-	7 2002		
				July 23, 2001 1636-1644				202		
		U.S. PATENT I	OCUMENT	r's			99			
EXAMINER	DOCUMENT NUMBER	DOCUMENT NUMBER PUBLICATION/		AME	CLASS	SUBCLASS	FILING	DATE		
INITIAL		ISSUE DATE					:			
	US					REC	F1\/c	-n		
	US					DEC	! W L	ולי.		
	US					UE C 2	§ 200	2		
	US					TECH CENTE	R 1600	/2900		
		FOREIGN PATEN	T DOCUME	ENTS			1 1000	/~00U		
	DOCUMENT NUMBER	DATE	CO	UNTRY	CLASS	SUBCLASS				
								LATION		
							YES	NO		
				*	<u> </u>					
	OTHER DOCUM	1ENTS (including Au	thor, Title, De	ate, Pertinent Pag	ges, etc.)					
18h	Andrew W. Taylor et al., "Alpha-I Gamma-Interferon", Neuroimmun				Antigen-Sti	imulated T Cell	Production	on of		
	Andrew W. Taylor et al., "Alpha-I Activity", FASEB Journal, 10(6):	A1206; Abstract 119	94 (1996)					tory		
	James M. Lipton et al., "Anti-infla 18(3):140-145 (1997)	mmatory Actions o	f the Neuroi	mmunomodula	tor α-MSH	", Immunology	Today,			
	Andrew W. Taylor, "Th3 Cells are Induced by Alpha-Melanocyte Stimulating Hormone (α-MSH)", FASEB Journal, 13(4)Part 1:A607, Abstract 476.10 (1999)									
1500	Andrew W. Taylor, "In Vitro Indu Stimulating Hormone (α-MSH)",					ptide Alpha-Me	lanocyte			
EXAMINER	quedet 450		DAT	TE CONSIDERI	ED					
	Initial if citation considered, whether or no Include copy of this form with next common			IPEP 609; Draw	line through	citation if not in o	conforman	ice and		
HCH/knr/281511-1	metade copy of this form with next commi	ameation to applicant.					·			